



#### ABSTRACT OF THE DISCLOSURE

A light probe microscope has a probe having a tip, a mechanism for positioning the probe tip closely to a sample surface and causing two-dimensional scanning movement between the probe tip and the sample, a light source for emitting light to an area proximate the probe tip and the sample, a two-dimensional image sensor for receiving the light radiated from the sample and producing a two-dimensional image of the sample in accordance therewith, and a device for producing a light image based on a signal intensity of light in a detection region of the two-dimensional image.